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PTO/SB/21 (08-00)

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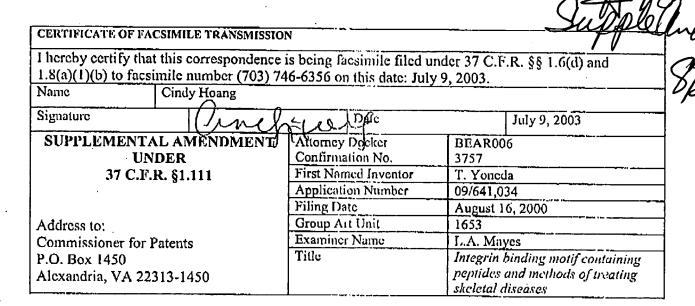
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		Application Number	09/641,034
TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Fiting Date	August 16, 2000
		First Named Inventor	YONEDA TOSHIYUKI
		Group Art Unit	1653
		Examiner Name	MAYES, LAURIE A.
Total Number of Pages In This Submission	12 (Including fax cover sheet)	Allomuy Dockul Number	BEAR-006
ENCLOSURES (check all that apply)			
Fee Transmittal Form  Fee Attached  Amendment / Reply  After Final  Affidavits/declaration(s)  Extension of Time Request  Express Abandonment Request  Information Disclosure Statement  Certified Copy of Priority Documents  Response to Missing Parts/ Incomplete Application  Response to Missing Parts  under 37 CFR 1.52 or 1.53	(for an Drawin D	n to Convert to a fonal Application of Atlorney, Revocation e of Correspondence	After Allowance Communication to Group Appeal Communication to Board of Appeals and Interferences Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Lotter Other Enclosure(s) (please identify below):
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CERTIFICATE OF FACSIMILE TRANSMISSION  I hereby cartify that this correspondence is being facsimile filed under 37 C.F.R. §§ 1.6(d) and 1.8(a)(1)(b) to facsimile number (703) 746-6356 on this date: July 9, 2003.  Typed or printed name Cinuty Kirn Houng ()			

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Signature



Sir:

This amendment is supplemental to the response, filed May 5, 2003 and responsive to the Office Action dated February 19, 2003. The February 19, 2003 set a three-month period for response, making a response due on or before May 19, 2003. The initial response was timely filed on May 5, 2003. A petition and fee for a two-month extension of time is filed herewith. Accordingly, this response is timely filed.

In view of the remarks put forth below, reconsideration and allowance are respectfully requested.

## FACSIMILE TRANSMITTAL BOZICEVIC, FIELD & FRANCIS LLP

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Date:

July 9, 2003

To:

**Examiner Laurie Mayes** 

Art Unit: 1653

U.S. Patent and Trademark Office

Facsimile No.:

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From:

Paula A. Borden (Reg. No. 42,344)

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Re:

U.S. Patent Application Serial No. 09/641,034

Filed: August 16, 2000 Our Ref. No.: BEAR-006

Message:

Please see the attached Supplemental Amendment.

Total number of pages, including this cover sheet: 12

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## I. AMENDMENTS

Please enter the amendments to claims 1, 8, and 16, as shown below.



- 1. (Currently Amended) A peptide consisting of about ten to about 50 amino acids in length, wherein the peptide comprises an amino acid sequence comprising an integrin binding motif, wherein the peptide is further characterized by a biological activity which enhances bone growth, and wherein the amino acids may be in the D- or L- conformation.
- 2. (Previously Amended) The peptide of claim 1, wherein the integrin binding motif is an RGD sequence.
- 3. (Original) The peptide of claim 1, wherein the amino acid sequence is contiguous with the RGD sequence in naturally occurring protein matrix extracellular phosphoglycoprotein.
- 4. (Previously Amended) The peptide of claim 1, wherein the peptide has a length of from about 15 to about 35 amino acids.
  - 5. (Original) The peptide of claim 1, wherein the amino acids are in the L-conformation.
  - 6. (Withdrawn)
  - 7. (Previously Amended) The peptide of claim 1, comprising the sequence TDLQERGDNDISPFSGDGQPFKD (SEQ II) NO:47).



- 8. (Currently Amended) A peptide characterized by:
- (a) consisting of a-length-of from ten to fifty amino acids;
- (b) an RGD sequence;

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(c) an amino acid sequence substantially the amino acid sequence that is contiguous with an RGD sequence of naturally occurring matrix extracellular phosphoglycoprotein; and

- (d) biological activity in promoting bone growth.
- 9. (Previously Amended) The peptide of claim 8, wherein the peptide is selected from the group consisting of

DFEGSGYTDLQERGD (SEQ ID NO:43)

YTDLQERGDNDISPF (SEQ ID NO:44)

ERGDNDISPFSGDGQ (SEQ ID NO:45)

TDLQERGDNDISPFSGDGQPFKD (SEQ 1D NO:47).

10.-11. (Withdrawn)

- 12. (Original) A formulation comprising:
- a carrier; and
- a therapeutically effective amount of a peptide of claim 8.
- 13. (Original) The formulation of claim 12, wherein the carrier is a saline solution and the formulation is injectable.
- 14. (Original) The formulation of claim 12, wherein the carrier is a paste and the formulation is a toothpaste.
- 15. (Original) The formulation of claim 12, wherein the carrier is an aqueous flavored solution and the formulation is a mouthwash.

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- 16. (Currently Amended) A pharmaceutical formulation, comprising:
  - a pharmaceutically acceptable carrier; and
- a therapeutically effective amount of a peptide having a length consisting of from ten to fifty amino acids which amino acids correspond to an amino acid sequence of naturally occurring

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protein matrix extracellular phosphoglycoprotein and comprising the RGD sequence of phosphoglycoprotein, the peptide further characterized by enhancing bone growth in a mammal.